### **Ilfotec HC Film Developer**

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and SI 2020/1577

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name IIfotec HC Film Developer

Product code 1155064

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s) Photographic Developer Solution

Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification HARMAN Technology Ltd

Address of Manufacturer Ilford Way

Mobberley Knutsford Cheshire East WA16 7JL

Postal code WA16 7JL
Telephone: +44(0)1565 650000
Fax +44(0)1565 872734

E-mail web-admin@harmantechnology.com

Office hours Supplier

Company Identification HARMAN Technology Ltd

Address of Supplier Ilford Way

Mobberley Knutsford Cheshire East WA16 7JL

Postal code WA16 7JL
Telephone: +44(0)1565 650000
Fax +44(0)1565 872734

E-mail web-admin@harmantechnology.com

Office hours

1.4 Emergency telephone number

National response centre

Address NHS Direct Emergency Phone No. +44 111

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

GB CLP Regulation, UK SI 2019/720 and Acute Tox. 4 :Harmful if swallowed. UK SI 2020/1567 Skin Irrit. 2 :Causes skin irritation.

Skin Sens. 1B :May cause an allergic skin reaction. Eye Dam. 1 :Causes serious eye damage. Muta. 2 :Suspected of causing genetic defects.

Carc. 2 :Suspected of causing cancer.

Repr. 2 :Suspected of damaging fertility or the unborn child.

STOT RE 2 :May cause damage to organs through prolonged or repeated exposure.

Aquatic Acute 1: Very toxic to aquatic life.

Aquatic Chronic 2 :Toxic to aquatic life with long lasting effects.

2.2 Label elements

According to GB CLP Regulations, UK SI 2019/720 and UK SI 2020/1567

Product Name Ilfotec HC Film Developer

 $(Contains: 2,2'\ -oxybise than old iethylene\ glycol,\ 2,2'-iminodiethan old iethan old iethylene,$ 

4-methyl-1-phenyl-3-pyrazolidone, Hydroquinone, N-

carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid), pentasodium

(carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate)

Hazard Pictogram(s)



GHS08





Signal Word(s) Danger

## **Ilfotec HC Film Developer**

Hazard Statement(s) H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction. H318: Causes serious eye damage.

H341: Suspected of causing genetic defects.

H351: Suspected of causing cancer.

H361: Suspected of damaging fertility or the unborn child.

H373: May cause damage to organs through prolonged or repeated exposure.

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s) P102: Keep out of reach of children.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTRE/doctor.

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation.

2.3 Other hazards

None known.

2.4 Additional Information

For full text of H/P Statements see section 16.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	EC No. / Registration number(s)		Hazard Statement(s)	Hazard Pictogram(s)
2,2'-iminodiethanoldiethanolamine	111-42-2	203-868-0	30%	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Dam. 1 H318 Repr. 2 H361 STOT RE 2 H373	GHS05 GHS08 GHS07
2,2' -oxybisethanoldiethylene glycol	111-46-6	203-872-2	10- 30%	Acute Tox. 4 H302	GHS07
Hydroquinone	123-31-9	204-617-8		Acute Tox. 4 H302 Skin Sens. 1B H317 Eye Dam. 1 H318 Muta. 2 H341 Carc. 2 H351 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS05 GHS08 GHS07 GHS09
N-carboxymethyliminobis(ethylenenitrilo)tetra(acetic acid)	67-43-6	200-652-8		Eye Irrit. 2 H319 Acute Tox. 4 H332 Repr. 2 H361 STOT RE 2 H373	GHS08 GHS07
4-methyl-1-phenyl-3-pyrazolidone	2654-57-1	220-180-6		Acute Tox. 4 H302 Skin Sens. 1 H317 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	GHS07 GHS09
pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate	140-01-2	205-391-3		Met. Corr. 1 H290 Eye Irrit. 2 H319 Acute Tox. 4 H332 Repr. 2 H361	GHS05 GHS08 GHS07

## Ilfotec HC Film Developer

For full text of H/P Statements see section 16.

#### **SECTION 4: FIRST AID MEASURES**

4.1 Description of first aid measures

Inhalation IF exposed or concerned: Get medical advice/attention.

Skin Contact Take off immediately all contaminated clothing and wash it before reuse. If skin

irritation occurs: Get medical advice/attention. Specific treatment (see Medical

Advice on this label). IF exposed or concerned:

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.

Ingestion Rinse mouth. Immediately call a POISON CENTRE/doctor.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns. Allergic contact dermatitis.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (see Medical Advice on this label). IF exposed or concerned: Get

medical advice/attention. Treat symptomatically.

#### **SECTION 5: FIREFIGHTING MEASURES**

5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media None.

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained

breathing apparatus. Dike fire control water for later disposal.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Ensure full personal protection (including respiratory

protection) during removal of spillages.

6.2 Environmental precautions

Avoid release to the environment. Spillages or uncontrolled discharges into

watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Collect spillage. Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be charalled to centain spillage and to avoid contamination of sources and

may be shovelled to contain spillage and to avoid contamination of sewers and

watercourses.

6.4 Reference to other sections

See Also Section 8, 13.

### SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke

when using this product. Wear protective gloves/protective clothing/eye

protection/face protection.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Keep out of reach of children.

Storage temperature Ambient.

Storage life Stable under normal conditions.

Incompatible materials None known.

7.3 Specific end use(s)

Photographic Developer Solution

#### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

8.1.1 Occupational Exposure Limits

## **Ilfotec HC Film Developer**

Occupational Exposure Limits										
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note				
Hydroquinone	123-31-9		0.5							
2,2'-Oxydiethanol	111-46-6	23	101							

Region United Kingdom

Source UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

Remark Notes

8.2 Exposure controls

Use with ventilation, local exhaust ventilation or breathing protection. A washing 8.2.1. Appropriate engineering controls

facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment

Wear eye protection with side protection (EN ISO 16321-1). Eye Protection



Wear protective clothing and gloves: Impervious gloves (EN 374). Breakthrough Skin protection

time of the glove material: refer to the information provided by the gloves' producer.



A suitable mask with filter type A (EN14387 or EN405) may be appropriate. Respiratory protection

Thermal hazards None known.

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the

appropriate regulatory body.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance Liquid. Colour: Not known.

Odour Not known. Odour threshold Not known. Not known. Melting point/freezing point Not known. Initial boiling point and boiling range Not known. Flash Point Not known. Evaporation rate Not known. Flammability (solid, gas) Not known. Upper/lower flammability or explosive Not known.

limits

Vapour pressure Not known. Vapour density Not known. Density (g/ml) Not known. Relative density Not known.

Solubility(ies) Solubility (Water): Not known. Solubility (Other): Not known.

Partition coefficient: n-octanol/water Not known. Auto-ignition temperature Not known. Decomposition Temperature (°C) Not known. Viscosity Not known. Explosive properties Not known. Oxidising properties Not known.

9.2 Other information

None.

## SECTION 10: STABILITY AND REACTIVITY

## **Ilfotec HC Film Developer**

10.1 Reactivity

None anticipated.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

None anticipated.

10.5 Incompatible materials

Not known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

#### SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity - Ingestion Calculation method : Harmful if swallowed.

Calculation method: Calculated acute toxicity estimate (ATE) Calc ATE - 1082.87

Acute toxicity - Skin Contact Calculation method : Not classified.
Acute toxicity - Inhalation Calculation method : Not classified.

Calculation method: Calculated acute toxicity estimate (ATE) Calc ATE - 466.58

Skin corrosion/irritation
Serious eye damage/irritation
Skin sensitization data
Calculation method : Causes skin irritation.
Calculation method : Causes serious eye damage.
Calculation method : May cause an allergic skin reaction.
Calculation method : Not classified.

Germ cell mutagenicity Calculation method : Suspected of causing genetic defects.

Carcinogenicity Calculation method : Suspected of causing cancer.

Reproductive toxicity Calculation method : Suspected of damaging fertility or the unborn child.

Lactation Calculation method : Not classified. STOT - single exposure Calculation method : Not classified.

STOT - repeated exposure Calculation method : May cause damage to organs through prolonged or repeated

exposure.

Aspiration hazard Calculation method : Not classified.

11.2 Other information

Not known

#### SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Toxicity - Aquatic invertebrates Not known.

Toxicity - Fish Not known.

Toxicity - Algae Not known.

Toxicity - Sediment Compartment Not classified.

Toxicity - Terrestrial Compartment Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

#### 12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

None known.

# SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Dispose at suitable refuse

site.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

## **Ilfotec HC Film Developer**

#### SECTION 14: TRANSPORT INFORMATION

Not classified as hazardous for transport.

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not classified as a Marine Pollutant.

14.6 Special precautions for user

Not known

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not known

#### SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

United Kingdom Regulations - Authorisations and/or Restrictions On Use

UK REACH Candidate List of Substances Not listed

of Very High Concern for Authorisation

UK REACH Authorisation List (Annex Not listed

XIV) list of substances subject to

authorisation

UK REACH Restrictions List (Annex XVII) Reproductive toxicants: Category 1 B (67-43-6), Reproductive toxicants: Category 1

Restrictions on the manufacture, placing B (140-01-2), 2,2'-iminodiethanoldiethanolamine (111-42-2), Hydroquinone (123-31-on the market and use of certain 9), 2,2'-oxybisethanoldiethylene glycol (111-46-6), 4-methyl-1-phenyl-3-

dangerous substances, mixtures and pyrazolidone (2654-57-1)

articles

UK REACH Rolling Action Plan (RAP)
The Persistent Organic Pollutants
Not listed
Not listed

The Persistent Organic Pollutants Regulations 2007 (SI 2007/3106) as

amended

The Ozone-Depleting Substances and Not listed

Fluorinated Greenhouse Gases

(Amendment etc.) (EU Exit) Regulations

2019 (SI 2019/583)

The Prior Informed Consent (PIC)

Regulations concerning the export and

import of hazardous chemicals SI2008/2108 as amended

European Regulations - Authorisations and/or Restrictions On Use

Community Rolling Action Plan (CoRAP) 2,2'-iminodiethanol (111-42-2), Hydroquinone (123-31-9), 2,2'-oxydiethanol (111-46-

6)

Not listed

15.2 Chemical Safety Assessment

United Kingdom A REACH chemical safety assessment has not been carried out.

### **SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements:

#### **LEGEND**

Hazard Pictogram(s)



CHEOS





Hazard classification

Met. Corr. 1 : Substance or mixture corrosive to metals, Category 1

Acute Tox. 4: Acute toxicity, Category 4

Skin Irrit. 2: Skin corrosion/irritation, Category 2

## **Ilfotec HC Film Developer**

Skin Sens. 1 : Skin sensitization, Category 1
Skin Sens. 1B : Skin sensitization, Category 1B
Eye Dam. 1 : Serious eye damage/irritation, Category 1

Eye Irrit. 2 : Serious eye damage/irritation, Category 2

Acute Tox. 4 : Acute toxicity, Category 4
Muta. 2 : Germ cell mutagenicity, Category 2
Carc. 2 : Carcinogenicity, Category 2
Repr. 2 : Reproductive toxicity, Category 2

STOT RE 2 : Specific target organ toxicity — repeated exposure, Category 2 Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1 Aquatic Chronic 1 : Hazardous to the aquatic environment, Chronic, Category 1 Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2

Hazard Statement(s)

H290: May be corrosive to metals.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H341: Suspected of causing genetic defects.

H351: Suspected of causing cancer.

H361: Suspected of damaging fertility or the unborn child.

H373: May cause damage to organs through prolonged or repeated exposure.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

H411: Toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P102: Keep out of reach of children.

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P260: Do not breathe dust/fume/gas/mist/vapours/spray.

P261: Avoid breathing dust/fume/gas/mist/vapours/spray.

P264: Wash hands and exposed skin thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312: IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.

P302+P352: IF ON SKIN: Wash with plenty of water.

P305+P351+P338+P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE/doctor.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P314: Get medical advice/attention if you feel unwell.

P321: Specific treatment (see Medical Advice on this label).

P330: Rinse mouth.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P362+P364: Take off contaminated clothing and wash it before reuse.

P391: Collect spillage.

P405: Store locked up.

P501: Dispose of contents in accordance with local, state or national legislation.

ATE : Acute Toxicity Estimate CAS : Chemical Abstracts Service DNEL : Derived No Effect Level

EC: European Community

EINECS: European Inventory of Existing Commercial Chemical Substances

LTEL: Long term exposure limit

PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration

Acronyms

## **Ilfotec HC Film Developer**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

STEL : Short term exposure limit STOT : Specific Target Organ Toxicity

vPvB : very Persistent and very Bioaccumulative

Key literature references and sources for GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

data used to compile the SDS

Training Advice Disclaimers

Regular safety training as appropriate

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